

Form PTO/SB/08

**INFORMATION DISCLOSURE CITATION
IN AN APPLICATION**

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Docket Number (Optional)

CIBT-P01-104

Application Number

09/977,864

Applicant

Dudek et al.

Filing Date

October 15, 2001

Group Art Unit

3731

U.S. PATENT DOCUMENTS

EXAMINER DATE PATENT #	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER		DATE	COUNTRY	CLASS	SUBCLASS	Translation	
							YES	NO
	AA	WO 95/18856		PCT				
	AB	WO 96/17924		PCT				

OTHER DOCUMENTS

(Including Author, Title, Date, Pertinent Pages Etc.)

	AC	U.S. Patent Application 09/663,835, filed 9/15/00, inventors: Baxter et al.
	AD	U.S. Patent Application 09/685,244, filed 10/10/00, inventors: Beachy et al.
	AE	U.S. Patent Application 09/687,800, filed 10/13/00, inventors: Baxter et al.
	AF	U.S. Patent Application 09/688,018, filed 10/13/00, inventors: Baxter et al.
	AG	U.S. Patent Application 09/688,076, filed 10/13/00, inventors: Beachy.
	AH	U.S. Patent Application 60/308,449, filed 7/27/01, inventors: Boyd et al.
	AI	Alcedo, J. et al. The Drosophila smoothened Gene Encodes a Seven-Pass Membrane Protein, a Putative Receptor for the Hedgehog Signal. <i>Cell</i> 86, 221-232 (1996).
	AJ	Apelqvist, A. et al. Sonic hedgehog directs specialized mesoderm differentiation in the intestine and pancreas. <i>Curr. Biol.</i> 7, 801-804 (1997).
	AK	Bellusci, S. et al. Involvement of Sonic hedgehog (Shh) in mouse embryonic lung growth and morphogenesis. <i>Development</i> 124, 53 (1997).
	AL	Berger, C.S. et al. Chromosomes in Kidney, Ureter, and Bladder Cancer. <i>Cancer Genetics and Cytogenesis</i> 23, 1-24 (1986).
	AM	Bitgood, M.J. & McMahon, A.P. Hedgehog and Bmp Genes are Coexpressed at Many Diverse Sites of Cell-Cell Interaction in the Mouse Embryo. <i>Dev. Biol.</i> 172, 126-138 (1995).

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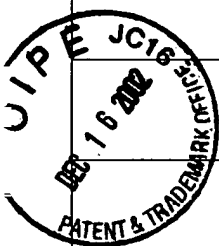
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AN	Bitgood, M.J. et al. Sertoli cell signaling by Desert hedgehog regulates the male germline. <i>Curr. Biol.</i> 6, 298 (1996).
AO	Bumcrot, D.A. et al. Proteolytic Processing Yields Two Secreted Forms of Sonic hedgehog. <i>Mol. Cell. Biol.</i> 15, 2294-2303 (1995).
AP	Cairns, P. et al. Initiation of bladder cancer may involve deletion of a tumour-suppressor gene on chromosome 9. <i>Oncogene</i> 8, 1083-1085 (1992).
AQ	Carter, B.S. et al. Allelic loss of chromosomes 16q and 10q in human prostate cancer. <i>PNAS</i> 87, 8751-8755 (1990).
AR	Chang, D.E. et al. Products, genetic linkage and limb patterning activity of a murine hedgehog gene. <i>Development</i> 120, 3339-3353 (1994).
AS	Chen, Y. & Struhl, G. Dual Roles for Patched in Sequestering and Transducing Hedgehog. <i>Cell</i> 87, 553 (1996).
AT	Dalbagni, G. et al. Genetic alterations in bladder cancer. <i>Lancet</i> 342, 469-471 (1993).
AU	Davidson, E. How embryos work: a comparative view of diverse modes of cell fate specification. <i>Development</i> 108, 365-389 (1990).
AV	Echelard, Y. et al. Sonic Hedgehog, a Member of a Family of Putative Signaling Molecules, is Implicated in the Regulation of CNS Polarity. <i>Cell</i> 75, 1417-1430 (1993).
AW	Ekker, S.C. et al. Patterning activities of vertebrate hedgehog proteins in the developing eye and brain. <i>Curr. Biol.</i> 5, 944-955 (1995).
AX	Ekker, S.C. et al. Distinct expression and shared activities of members of the hedgehog gene family of <i>Xenopus laevis</i> . <i>Development</i> 121, 2337-2347 (1995).
AY	Ericson, J. et al. Sonic Hedgehog Induces the Differentiation of Ventral Forebrain Neurons: A Common Signal for Ventral Patterning within the Neural Tube. <i>Cell</i> 81, 747-756 (1995).
AZ	Fan, C.-M. & Tessier-Lavigne, M. Patterning of Mammalian Somites by Surface Ectoderm and Notochord: Evidence for Sclerotome Induction by a Hedgehog Homolog. <i>Cell</i> 79, 1175-1186 (1994).
BA	Fan, C.-M. et al. Long-Range Sclerotome Induction by Sonic Hedgehog: Direct Role of the Amino-Terminal Cleavage Product and Modulation by the Cyclic AMP Signaling Pathway. <i>Cell</i> 81, 457-465 (1995).
BB	Fietz, M.J. et al. Secretion of the amino-terminal fragment of the Hedgehog protein is necessary and sufficient for hedgehog signaling in <i>Drosophila</i> . <i>Curr. Biol.</i> 5, 643-651 (1995).
BC	Forbes, A.J. et al. hedgehog is required for the proliferation and specification of ovarian somatic cells prior to egg chamber formation in <i>Drosophila</i> . <i>Development</i> 122, 1125-1135 (1996).
BD	Francis, P.H. et al. Bone morphogenetic proteins and a signaling pathway that controls patterning in the developing chick limb. <i>Development</i> 120, 209-218 (1994).

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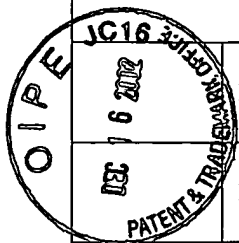
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BE	Fujita, E. et al. Involvement of Sonic hedgehog in the Cell Growth of LK-2 Cells, Human Lung Squamous Carcinoma Cells. <i>Biochem. Biophys. Res. Comm.</i> 238, 658 (1997).
BF	Gibas, Z. et al. Nonrandom Chromosomal Changes in Transitional Cell Carcinoma of the Bladder. <i>Cancer Res.</i> 44, 1257-1264 (1984).
BG	Goodrich, L.V. et al. Conservation of the hedgehog/patched signaling pathway from flies to mice: induction of a mouse patched gene by Hedgehog. <i>Genes Dev.</i> 10, 301-312 (1996).
BH	Gurdon, J.B. The Generation of Diversity and Pattern in Animal Development. <i>Cell</i> 68, 185-199 (1992).
BI	Hahn, H. et al. Mutations of the Human Homolog of Drosophila patched in the Nevroid Basal Cell Carcinoma Syndrome. <i>Cell</i> 85, 841 (1996).
BJ	Hammerschmidt, M. et al. Protein kinase A is a common negative regulator of Hedgehog signaling in the vertebrate embryo. <i>Genes Dev.</i> 10, 647-658 (1996).
BK	Hynes, M. et al. Induction of Midbrain Dopaminergic Neurons by Sonic Hedgehog. <i>Neuron</i> 15, 35-44 (1995).
BL	Honig, L.S. Positional signal transmission in the developing chick limb. <i>Nature</i> 291, 72-73 (1981).
BM	Hooper, J.E. & Scott, M.P. The Drosophila patched Gene Encodes a Putative Membrane Protein Required for Segmental Patterning. <i>Cell</i> 59, 751 (1989).
BN	Jensen, A.M. & Wallace, V.A. Expression of Sonic hedgehog and its putative role as a precursor cell mitogen in the developing mouse retina. <i>Development</i> 124, 363 (1997).
BO	Jessell, T.M. & Melton, D.A. Diffusible Factors in Vertebrate Embryonic Induction. <i>Cell</i> 68, 257-270 (1992).
BP	Johnson, R.L. et al. Ectopic Expression of Sonic hedgehog Alters Dorsal-Ventral Patterning of Somites. <i>Cell</i> 79, 1165-1173 (1994).
BQ	Johnson, R.L. et al. Human Homolog of patched, a Candidate Gene for the Basal Cell Nevus Syndrome. <i>Science</i> 272, 1668 (1996).
BR	Krauss, S. et al. A Functionally Conserved Homolog of the Drosophila Segment Polarity Gene hh is Expressed in Tissues with Polarizing Activity in Zebrafish Embryos. <i>Cell</i> 75, 1401-1416 (1993).
BS	Lai, C.-J. et al. Patterning of the neural ectoderm of Xenopus laevis by the amino-terminal product of hedgehog autoproteolytic cleavage. <i>Development</i> 121, 2349-2360 (1995).
BT	Laufer, E. et al. Sonic hedgehog and Fgf-4 Act through a Signaling Cascade and Feedback Loop to Integrate Growth and Patterning of the Developing Limb Bud. <i>Cell</i> 79, 993-1003 (1994).
BU	Lee, J.J. et al. Secretion and Localized Transcription Suggest a Role in Positional Signaling for Products of the Segmentation Gene hedgehog. <i>Cell</i> 71, 33-50 (1992).

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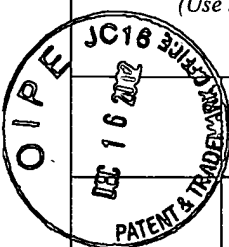
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BV	Lee, J.J. et al. Autoproteolysis in hedgehog Protein Biogenesis. <i>Science</i> 266, 1528-1537 (1994).
BW	Lench, N.J. et al. Characterization of human patched gene line mutations in naevoid basal cell carcinoma syndrome. <i>Hum. Genet.</i> 100, 497-502 (Oct. 1997).
BX	Levin, M. et al. A Molecular Pathway Determining Left-Right Asymmetry in Chick Embryogenesis. <i>Cell</i> 82, 803-814 (1995).
BY	Levine, E.M. et al. Sonic Hedgehog Promotes Rod Photoreceptor Differentiation in Mammalian Retinal Cells in Vitro. <i>J. Neurosci.</i> 17, 6277 (1997).
BZ	Li, J. et al. PTEN, a Putative Protein Tyrosine Phosphatase Gene Mutated in Human Brain, Breast, and Prostate Cancer. <i>Science</i> 275, 1943-1947 (1997).
CA	Lopez-Martinez, A. et al. Limb-patterning activity and restricted posterior localization of the amino-terminal product of Sonic hedgehog cleavage. <i>Curr. Biol.</i> 5, 791-795 (1995).
CB	Marigo, V. et al. Biochemical evidence that Patched is the Hedgehog receptor. <i>Nature</i> 384, 177-179 (1996).
CC	Marti, E. et al. Distribution of Sonic hedgehog peptides in the developing chick and mouse embryo. <i>Development</i> 121, 2537-2547 (1995).
CD	Marti, E. et al. Requirement of 19K form of Sonic hedgehog for induction of distinct ventral cell types in CNS explants. <i>Nature</i> 375, 322-325 (1995).
CE	McGarvey, T.W. et al. PTCH gene mutations in invasive transitional cell carcinoma of the bladder. <i>Oncogene</i> 17, 1167-1172 (1998).
CF	Munsterberg, A.E. et al. Combinatorial signaling by Sonic hedgehog and Wnt family members induces myogenic bHLH gene expression in the somite. <i>Genes Dev.</i> 9, 2911-2922 (1995).
CG	Nakano, Y. et al. A protein with several possible membrane-spanning domains encoded by the Drosophila segment polarity gene patched. <i>Nature</i> 341, 508 (1989).
CH	Niswander, L. et al. A positive feedback loop coordinates growth and patterning in the vertebrate limb. <i>Nature</i> 371, 609-612 (1994).
CI	Nusse, R. Patching up Hedgehog. <i>Nature</i> 384, 119-120 (1996).
CJ	Nusslein-Volhard, C. & Wieschaus, E. Mutations affecting segment number and polarity in Drosophila. <i>Nature</i> 287, 795-801 (1980).
CK	Pepicelli, C.V. et al. Sonic hedgehog regulates branching morphogenesis in the mammalian lung. <i>Curr. Biol.</i> 8, 1083-1086 (1998).
CL	Perrimon, N. Hedgehog and Beyond. <i>Cell</i> 80, 517 (1995).

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CM

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CN

Placzek, M. et al. Induction of floor plate differentiation by contact-dependent, homiogenetic signals. *Development* 117, 205-218 (1993).

CO

Podlasek, C.A. et al. Prostrate Development Requires Sonic Hedgehog Expressed by the Urogenital Sinus Epithelium. *Dev. Biol.* 209, 28-39 (1999).

CP

Porter, J.A. et al. Hedgehog Patterning Activity: Role of a Lipophilic Modification Mediated by the Carboxy-Terminal Autoprocessing Domain. *Cell* 86, 21-34 (1996).

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CR

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CX

Smeets, W. et al. Chromosomal Analysis of Bladder Cancer. III. Nonrandom Alterations. *Cancer Genetics and Cytogenesis* 29, 29-41 (1987).

CY

Stone, D.M. et al. The tumour-suppressor gene patched encodes a candidate receptor for Sonic hedgehog. *Nature* 384, 129-134 (1996).

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Tabata, T. et al. The Drosophila hedgehog gene is expressed specifically in posterior compartment cells and is a target of engrailed regulation. *Genes Dev.* 6, 2635-2645 (1992).

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DB

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DD	Wilkin, R.P. et al. Stromal 5alpha-reductase activity is elevated in benign prostatic hyperplasia. <i>Acta Endocrinology</i> 94, 284-288 (1980).		
DE	Xie, J. et al. Activating Smoothed mutations in sporadic basal-cell carcinoma. <i>Nature</i> 391, 90-92 (1998).		
DF	Yamada, T. et al. Control of Cell Pattern in the Neural Tube: Motor Neuron Induction by Diffusible Factors from Notochord and Floor Plate. <i>Cell</i> 73, 673-686 (1993).		
EXAMINER		DATE CONSIDERED	
EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the applicant.			

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